

Notice of Allowability

Application No.

10/726,039

Examiner

DUNG A. LE

Applicant(s)

GHYSELEN ET AL.

Art Unit

2818

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment dated 9/14/2005.
2. ☒ The allowed claim(s) is/are 1-19, 23-25 and 29-39.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 9/14/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



DETAILED ACTION

Response to Amendment

This Office Action is in response to Amendment filed on 9/14/2005.

Claims 20- 22 and 26-28 have been cancelled.

Claims 1, 2, 4, 6, 8, 15, 17, and 23- 25 have been amended.

Claims 29- 39 are newly added.

Claims 1- 19, 23- 25 and 29-39 are pending in the present application at the time of examination

Remark of Applicants has been considered.

Claims 1- 19, 23- 25 and 29-39 are renumbered as Claims 1-33

Reason for allowance

Claims 1- 19, 23- 25 and 29-39 are allowed. The following is an examiner's statement of reason for allowance:

Set of claims 1-19, 29-34: None of the references of record teaches or suggests the claimed Method of recycling a donor wafer having the limitation the buffer structure including a buffer layer that has a first side with first crystalline properties, for association with the substrate, and a second side with second crystalline properties that

are different from the first crystalline properties, for association with the useful layer and a portion transition between the first and second properties and among other steps/limitations as claimed in independent claim 1.

Set of claims 23- 25: None of the references of record teaches or suggests the claimed Method of recycling a donor wafer (in addition to other steps/limitations as claimed in independent claim 23) comprising: the step mechanically removing at least part of the remaining portion of the overlayer, including any remaining portion of the useful layer, to provide a donor wafer surface that is suitable for use in a subsequent detachment of a new useful layer.

Set of claims 35- 39: None of the references of record teaches or suggests the claimed Method of recycling a donor wafer having the step of mechanically removing at least part of a remaining portion of the useful layer material from the buffer structure, while preserving the buffer layer to preserve the second lattice parameter on the second side and among other steps/limitations as claimed in independent claim 35.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Tuesday and Thursday 6:00am- 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The central fax phone numbers for the organization where this application or proceeding is assigned are (571) 272-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DUNG A. LE 
Primary Examiner
Art Unit 2818

RECYCLING OF A WAFER COMPRISING A BUFFER LAYER
AFTER HAVING SEPARATED A THIN LAYER THEREFROM
BY MECHANICAL MEANS

INVENTORS: Bruno GHYSELEN, et al.
ATTORNEY DOCKET NO. 4717-8600; CUSTOMER NO. 28765

REPLACEMENT DRAWING SHEET



1 / 3

Approved,
Please, enter it.
Dh 11/20/05

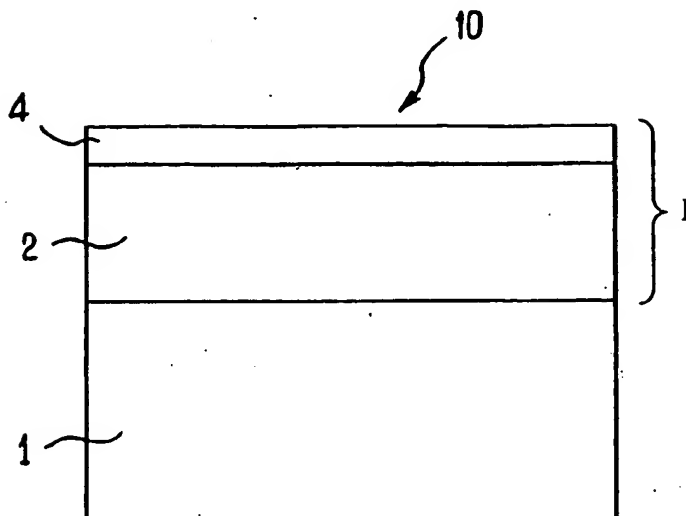


FIG.1 (Prior Art)

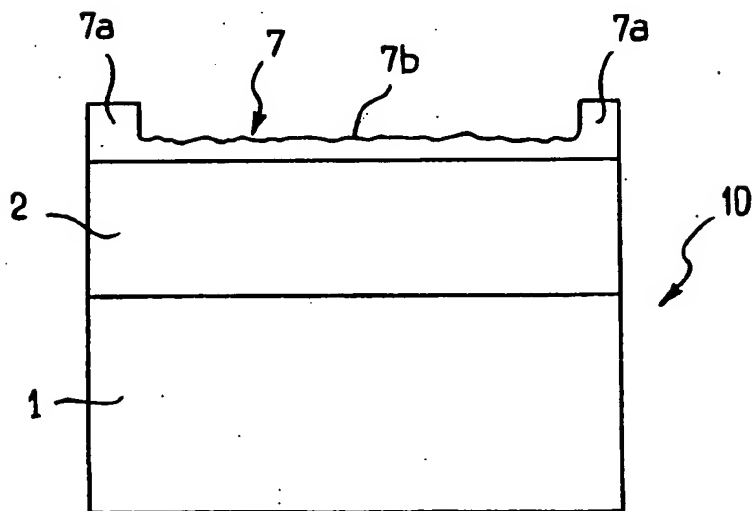


FIG.2 (Prior Art)